

**Secure Rural Schools and Community Self-Determination Act of 2000
Public Law 106-393**

**Title II Project Application for 2007 Funds (Round #7)
Roseburg District Resource Advisory Committee**

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| 1. Project Name: South Fork Deer Creek Phase II | 2. County: Douglas |
| 3. Sponsoring Organization: Douglas SWCD | 4. Date: August 11, 2007 |
| 5. Sponsor's Phone Number: (541) 957-5061 | |
| 6. Sponsor's E-mail: jim.lee@oacd.org | |

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| 7. Project Location (attach project area map) | |
| a. Description of Location: The Hatfield Ranch is located 12 miles southeast of Roseburg, in the Dixonville area. The two other landowners, the Steed's and Jim Harris are adjacent both up and downstream. (See attached map for more details) | |
| b. Sub Basin Name (4 th Field Watershed; e.g. North Umpqua): South Umpqua | |
| c. Watershed Name (5 th Field Watershed; e.g. Little River): Deer Creek | |
| d. Legal Location: Township 27 S Range 4W Section(s) 31 | |
| e. BLM District: Roseburg | e. BLM Resource Area South Douglas Resource Area |
| f. State / Private / Other lands involved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

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| <p>8. Project Goals and Objectives: (Describe the goals and objectives of the project. If applicable list species that will benefit from the project)</p> <p>Douglas Soil and Water Conservation District (DSWCD) working cooperatively with the Natural Resource Conservation Service (NRCS), Partners for the Umpqua Rivers (PUR) and Oregon Department of Fish and Wildlife (ODFW) will be seeking to restore 1.76 miles of South Deer Creek and the Middle Fork of South Fork. The creeks provide spawning and rearing habitat to Coho salmon, Steelhead, Cutthroat trout and Pacific lamprey. The surrounding landscape supports the formerly listed, Columbia white-tailed deer and is home to many other species of concern including: Bald eagle, Golden eagle, Northern goshawk, Red-tailed hawk, Pileated woodpecker, White-breasted nuthatch, Acorn woodpecker, Western bluebird, Northwestern pond turtle, Foothill yellow-legged frog, red legged frog, Ring-tailed cat and the Western gray squirrel.</p> <p>The long-term goal of this project will be to enhance the stream bank, stream bed and overall geomorphologic conditions to create improved fish habitat and hydrologic function for salmonid species. The installation of the fish habitat structures will also help reconnect the active channel with the flood plain and provide off-channel habitat during high water/flooding conditions. Another goal of this project will be to establish best management practices for livestock and forestry while allowing for sustainable use compatible with fish and wildlife species existing on or migrating through ranch.</p> |
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9. Project Description: (Describe how the project will be conducted and how its goals and objectives will be met.)

This project seeks to restore 1.76 miles of creek habitat through the placement of multiple stream habitat structures. These structures will produce high quality pool habitat, trap gravels and reconnect the channel to the floodplain. In addition to providing improvement fisheries habitat, the project will also improve water quality through the reduction of streambank erosion and subsequent turbidity and will lower water temperature with deeper pools and riparian vegetative cover. This project will dovetail with the riparian habitat improvement work recently initiated by the landowners with the NRCS, participating in the Conservation Reserve Enhancement Program (CREP). This work will also compliment streambank stabilization efforts utilizing tree revetments and willow plantings that were installed last year by DSWCD and will continue again in the fall of 2007.

10. How will cooperative relationships among people that use federal lands be improved?

The Hatfield ranch is bordered by several parcels of BLM lands. The fisheries and wildlife enhancements coupled with the eradication of noxious weed species in the riparian areas will compliment management efforts on public lands and foster a cooperative partnership in the watershed

11. How is this project in the best public interest and how will it benefit communities?

This project will be a model for interagency cooperation and habitat restoration in a critical watershed. Deer creek has been identified as a water quality limited stream by the Oregon Department of Environmental Quality and has been placed on the 303(d) list as required by the Clean Water Act. Deer creek is not meeting bacteria standards during all seasons, temperature during the summer, dissolved oxygen in the winter and habitat modification (lacking large woody debris for 50% of the stream length and lacking adequate pool frequency). This project seeks to directly address these water quality limited parameters, especially when coupled with the riparian restoration work to be completed by the landowners with assistance from the NRCS. As stated in the Deer Creek Watershed Assessment and Action Plan of 2002, "Any improvement in stream temperature would be beneficial to the aquatic resource. Improving even a short section of a warm stream can create an oasis that could be a welcome refuge for cold-water dependent

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aquatic life." The action plan of this document strongly advocates, "the adding of large wood to stream segments with an active channel less than 30 feet wide." This project will benefit the community directly through improved water quality for temperature, dissolved oxygen and reduced turbidity. The project will also benefit the community by reducing winter peak flows through the reconnection to the flood plain with a resultant increased storage capacity of the hydrologic system. The increase in storage capacity will in turn, augment summer flows. Storage capacity is a major consideration for Deer Creek, a tributary that flows into the South Umpqua in Roseburg, which has been recorded at or above flood stage 13 times between 1950 and 2002 by Douglas County Public Works Department.

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| 12. Who will accomplish the project? | |
| <input checked="" type="checkbox"/> Contractor | <input type="checkbox"/> Federal Workforce |
| <input type="checkbox"/> County Workforce | <input type="checkbox"/> Volunteers |
| <input checked="" type="checkbox"/> Other (specify): DSWCD, ODFW, PUR, Jim Harris, the Steeds and the Hatfields will work cooperatively to implement the project. | |

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| 13. Is this project coordinated with other related project(s) on adjacent lands? | |
| a. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, then describe) This project is a continuation of stream and riparian restoration that has been accomplished upstream on the Hatfield property. Downstream, adjacent landowner's, Richard and Cassandra Steed will also be participating with several fish habitat structures on their section of South Fork Deer Creek. The upstream neighbor, Jim Harris will also be participating with stream structures on the Middle Fork of South Fork. Several neighbors including the Hatfield's are participating in the Conservation Reserve Enhancement Program through the Natural Resource Conservation Service. | |
| b. Are you seeking funds from other Resource Advisory Committees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, then describe) | |

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| 14. If the project is on private land how does it benefit federal lands or resources? |
| The project is on private land but is bordered by several tracts of BLM administered land. The project will benefit federal resources by providing connectivity of riparian and aquatic habitat for both fish and wildlife that migrate through private lands. |

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| 15. Measure of Project Accomplishments | |
| a. Total Acres:N/A | b. Total Miles:1.76 Miles |
| c. Number of Structures: 25 | d. Estimated Number of People Reached |

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| e. Number of Laborer Days: 20 | (for environmental education and workforce training projects): 30/year- field tours; also photos will be in displays or power point presentations at fairs and workshops. A newsletter article will also be produced featuring the Hatfield project that will be mailed to over 5,000 Douglas County residents. |
| f. Other (specify): | |
| g. Describe how long will the benefits of the project last: 25-30 years | |

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| 16. Will the project generate merchantable materials? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: The Hatfield's will supply one load of logs and one load of boulders for stream structures from their property for their match obligation. Additional logs and boulders for the project may be purchased from the Hatfield's. Both Jim Harris and the Steeds will be supplying logs or whole trees with root wads to the project. |

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| 17. How does the proposed project meet purposes of the legislation? (Check at least one) |
| <input type="checkbox"/> Improves maintenance of existing infrastructure. |
| <input checked="" type="checkbox"/> Implements stewardship objectives that enhance forest ecosystems. |
| <input checked="" type="checkbox"/> Restores and improves land health. |
| <input checked="" type="checkbox"/> Restores water quality. |

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| 18. Project Type (Check at least one) |
| <input type="checkbox"/> Road Maintenance <input type="checkbox"/> Trail Maintenance |
| <input type="checkbox"/> Road Decommission/Obliteration <input type="checkbox"/> Trail Obliteration |
| <input type="checkbox"/> Other Infrastructure Maintenance (specify): |
| <input type="checkbox"/> Soil Productivity Improvement <input type="checkbox"/> Forest Health Improvement |
| <input checked="" type="checkbox"/> Watershed Restoration & Maintenance <input checked="" type="checkbox"/> Wildlife Habitat Restoration |
| <input checked="" type="checkbox"/> Fish Habitat Restoration <input type="checkbox"/> Control of Noxious Weeds |
| <input checked="" type="checkbox"/> Reestablish Native Species |
| <input type="checkbox"/> Other Project Type (specify): |

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| 19. Project Initiation and Estimated Completion Dates: (Describe the timing of the major phases of the project) The project will be completed during the 2008 in- water work period (July 1-September 15). |
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| 20. Status of Project Planning | | | |
| a. NEPA process complete: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| b. Consultation complete: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not Applicable |
| c. DSL/ODFW* permits for in-stream work obtained: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not Applicable |
| d. DSL/COE* 404 fill/removal permit obtained: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not Applicable |
| e. SHPO* concurrence received: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not Applicable |

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| f. Project design(s) completed: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not Applicable |
| g. If you answered yes to any of the questions above, please describe who will accomplish the work and when it will be complete: | | | |
| * DSL = Dept. of State Lands, ODFW = Oregon Department of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer | | | |

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| 21. Anticipated Project Costs |
| a. Total Title II funds requested: 31,020 |

Table 1. Project Cost Analysis (Includes all expenditures for the life of the project)

| Item | Fed. Agency Appropriated Contribution | Requested County Title II Contribution | Other Contributions | Total Available Funds |
|----------------------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------|------------------------------|
| Planning and Permits | | 1,200 | 2,000 | 3,200 |
| Design & Engineering | | 1,000 | 1,500 | 2,500 |
| Project/Contract Administration | | 2,820 | 2,600 | 5,420 |
| Project/Contract Implementation ¹ | | 7,500 | 8,000 | 15,500 |
| Materials & Supplies ² | | 18,000 | 30,000 | 48,000 |
| Post-Project Monitoring | | 500 | 500 | 1,000 |
| Other | | | | |
| Total Cost Estimate | | 31,020 | 44,600 | 75,620 |

¹This could be either the cost of the labor for project implementation or the cost of a contract.

²If the project is implemented by contract, materials and supplies are likely included in the cost of the contract.

22. Provide a budget narrative, including a description of other source(s) of funding for the project identified above and/or a clarification of any other aspects of the budget:

An Oregon Watershed Enhancement Board grant will be matching most of the requested Title II funding. Umpqua Fishery Enhancement Derby grant will assist with materials, specifically boulders and logs. A Pacific Power Salmon Restoration grant will also be sought for funding of additional stream structure materials. Oregon Department of Fish and Wildlife and Partners for the Umpqua Rivers, will be assisting with planning, design and project implementation. Douglas Soil and Water Conservation District will be contributing tree revetments to the project including materials and labor. The landowners will be contributing logs, root wads, boulders and eight hours of excavator time to the project.

23. Monitoring Plan

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| <p>a. What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? Who will be responsible for this monitoring item? DSWCD will take physical measurements of stream characteristics - pool length, width, depth, substrate composition, amount of wood in structures and configuration. Georeferenced photo points of the structures and the geomorphologic measurements will be taken pre-project, and at 1, 2, 5, 10 year intervals.</p> |
| <p>b. How will the project be evaluated to determine how well it contributes to local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? Who will be responsible for this monitoring item? This project will not likely involve training or employment opportunities for youth groups or programs other than possible assistance in some capacity, with the tree revetments and/or a field tour conducted by DSWCD.</p> |
| <p>c. What methods will be established to determine how well the proposed project improves the use of, or added value to, any products removed from federal lands consistent with the purposes of this Act? Who will be responsible for this monitoring item? No products will be removed from federal lands directly related with this project although fish and wildlife whose range extends into federal lands should be benefited and may be harvested according to state regulations.</p> |

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| <p>24. What are the analyses, plans, legislation, or other supporting documents that support and guide this application? (E.g. the Northwest Forest Plan, a watershed analysis, a late successional reserve assessment, or the Oregon Plan for Salmon.)</p> |
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The Oregon Plan for Salmon and Watersheds calls for the restoration and healthy function of Oregon's natural aquatic systems. The Oregon Plan directs "salmon and watershed restoration plans to be developed and implemented by communities and landowners with knowledge of local problems and ownership in local solutions." The plan goes on to state, "Watershed Councils, Soil and Water Conservation Districts, cities, counties, industries, landowners and individual homeowners must all work together to restore our watersheds."

This project will also follow the "Deer Creek Watershed Assessment and Action Plan" developed by the Partnership for the Umpqua Rivers Watershed Council. The plan's key findings and recommendations include, "where appropriate, the placement of large root wads, logs and/or boulders in streams or creeks to improve pools, collect gravel and improve overall fish habitat." Additionally, the plan encourages land use practices that enhance or protect the riparian areas by: "Protecting riparian areas from livestock-caused browsing and bank erosion through riparian fencing and providing off-channel water systems and by planting native riparian trees and shrubs and understory vegetation in areas with poor or fair riparian areas."

25. Who are the key people responsible for this project? (List their names and titles)

Jim Lee, project manager, DSWCD; Sam Moyers, assistant district fisheries biologist, ODFW; Terry Leuker, hydrologist, PUR.

26. Attach a map and photograph(s) of the project. (At a minimum, the map should show the project location, roads, and streams, and private versus BLM ownership. The photograph should show the project site or a representative portion of it. **More than one photograph can be submitted, but they must all fit on one page. A digital photograph incorporated into this application is preferred; hard copies will be copied in black and white.**)